

[0279] Entity ID Attribute ID ([Attribute_ID]). This is the Attribute ID of the Attribute for the Entity ID column in the Entity table.

[0280] Entity Name Attribute ID ([Attribute_ID_Entity_Name_Col]). This is the Attribute ID of the Attribute, if any, for the Entity name column in the Entity table.

[0281] Entity Table ID ([Application_Table_ID]). This is the Table ID for the Entity table, which relates a row in the Entity Class table with the row in the Application Table defining meta-data about the Entity table.

[0282] Geometry Type ([Geometry_Typ_Cd]). This indicates the type of geometric shape that is associated with an Entity class.

[0283] History Type ([History_Typ_Cd]). This indicates the method used to maintain historical data for this Entity class.

[0284] Location Type ([Location_Typ_Cd]). For an Entity in the Road Furniture Entity Class, this indicates whether the location for the object refers to the full width of the road or to a position on the road.

[0285] Name ([Name]). Each Entity class has a name, unique among the Entity class names, that is used in user interface screens to help a user find and select data. This column is the Entity class name.

[0286] Some traversal classes (e.g., RCLinks) supply names for each section of road, and others (e.g., interstates) only supply names for some sections of roads. A flag indicates whether a traversal Entity class is intended to supply names for all sections of the road network. Some traversals require that the names of the traversals

are unique (e.g., RCLinks). Others allow traversals with the same name (e.g., streets).

A column indicates whether the traversal names for this traversal Entity class are unique. Some Traversal Entity classes support assigning a primary traversal to each section of road, and a column indicates whether the traversal class supports that

5 functionality.

[0287] In order to assign a primary traversal to each section of road, a business rule must be defined that indicates which of the traversals assigned to a section of road is the primary traversal. A column defines a function that, when applied to a table containing the current Attributes for a traversal, returns a key that can be used to
 10 sort the traversals in order of importance. For each section of road, the traversal with the least key among the traversals that include that section is the primary traversal for that section.

[0288] Some traversal classes can support milepost values that apply specifically to that class of traversals. A column indicates whether the traversal class
 15 has milepost values associated specifically to it. Some Entity classes are not appropriate for viewing in with the AdHoc Query tool. A flag indicates whether an Entity class should appear in the AdHoc Query tool.

[0289] A user with System Privileges can create, update, and delete entries from the Entity Class table in order to create, update, and delete Entity classes. When
 20 modifying an Entity, the user is responsible for ensuring that the Oracle® tables required to maintain information about the Entity are also modified.

[0290] An Attribute 1720 defines a characteristic of an Entity. The following list defines the properties of an Attribute:

[0291] Application Table ID ([Application_Table_ID]). The ID of the Application Table, as shown in the Table 1740, describes the table in which this Attribute is stored.

[0292] Attribute Cluster ID ([Attribute_Cluster_ID]). The Attribute Cluster ID specifies the Attribute cluster, if any, to which this Attribute is associated.

[0293] Attribute ID ([Attribute_ID]). Each Attribute is identified by a unique numeric identifier, the Attribute ID.

[0294] Attribute Type ([Attribute_Typ_Cd]). Most Attributes are directly related to columns in the TSAF database and are maintained by directly updating the value in that column. However, some Attributes are derived from other Attribute values. For example, an IsPaved Attribute could be derived from the pavement type Attribute by coding each pavement type as either paved or unpaved.

[0295] Column Name ([Physical Field Name]). The name of the column in the Application Table, if any, that contains the values for this Attribute.

[0296] Data Type ([DB_Data_Type]). This property indicates which of the underlying data types applies to this Attribute.

[0297] Default Value ([Default Value]). For a required Attribute, this column specifies the default value that is used for the Attribute if no value is specified when the Entity for that Attribute is defined.